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- A method for purifying a thermoplastic norbornene resin comprising: cleaning said norbornene resin to eliminate organic impurities, ionic impurities, metallic impurities, and particles by using cleaning liquid selected from 2-propanol and a mixed solvent of 2-propanol and water to form a purified resin.
- 2. The method for purifying a thermoplastic norbornene resin according to claim, 1, wherein said mixed solvent has a mixing ratio of 2-propanol to water of from 1:1 to 5:1 by volume.

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3. The method for purifying a thermoplastic norbornene resin according to claim 1, wherein said purified resin contains said organic impurities not more than 30 ppb, said ionic impurities not more than 5 ppb, and said metallic impurities not more than 5 ppb.

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- 4. The method for purifying a thermoplastic norbornene resin according to claim 2, wherein said purified resin contains said organic impurities not more than 30 ppb, said ionic impurities not more than 5 ppb, and said metallic impurities not more than 5 ppb.
- 5 The method for purifying a thermoplastic norbornene resin according to claim 3, wherein said organic impurities comprise hydrocarbon impurities of

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and deterioration product of oxidized resin component of not more than 5 ppb.

- 6. The method for purifying a thermoplastic norbornene resin according to claim 4, wherein said organic impurities comprise hydrocarbon impurities of not more than 20 ppb, deterioration product of antioxidant of not more than 5 ppb, and deterioration product of oxidized resin component of not more than 5 ppb.
- 7. A plastic substrate for a magnetic recording medium manufactured by injection-molding a thermoplastic norbornene resin purified by the method defined by claim 1.

8. A plastic substrate for a magnetic recording medium manufactured by injection-molding a thermoplastic norbornene resin purified by the method defined by claim 2.

- 9. A plastic substrate for a magnetic recording medium manufactured by injection-molding a thermoplastic norbornene resin purified by the method defined by claim 3.
- 10. A plastic substrate for a magnetic recording medium manufactured by injection-molding a thermoplastic norbornene resin purified by the method defined by claim 4.

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defined by claim 5. 12. A plastic substrate for a magnetic recording medium manufactured by

injection-molding a thermoplastic norbornene reşin purified by the method

injection-molding a thermoplastic norbornene resin purified by the method

- 13. The plastic substrate for a magnetic recording medium according to claim 7, wherein number of defect that is not/smaller than 1 µm in diameter existing on a surface of said plastic substrate is not more than 100 per surface.
 - 14. A magnetic recording inedium comprising: said plastic substrate defined by claim 7; and
- a magnetic layer, a protective layer, and a liquid lubricant layer sequentially formed on said plastic substrate.
 - 15. A magnetic recording medium comprising: said plastic substrate defined by claim 8; and
- a magnetic layer, /a protective layer, and a liquid lubricant layer sequentially formed on said plastic substrate.
 - 16. A magnetic recording/medium comprising: said plastic substrate defined by claim 9; and

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a magnetic layer, a protective layer, and a liquid lubricant layer sequentially formed on said plastic substrate.

19. A magnetic recording medium comprising: said plastic substrate defined by claim 10; and

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a magnetic layer, a protective layer, and a liquid lubricant layer sequentially formed on said plastic substrate.

18. A magnetic recording medium comprising: said plastic substrate defined by claim 11; and

a magnetic layer, a protective layer, and a liquid lubricant layer sequentially formed on said plastic substrate.

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19. A magnetic recording medium comprising: said plastic substrate defined by claim 12; and

a magnetic layer, a protective layer, and a liquid lubricant layer sequentially formed on said plastic substrate.

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20. The magnetic recording medium according to of aim 14, wherein said medium does not generate any blister having a diameter of not less than 1 μ m and a height of not less than 0.1 μ m when said medium is left in an environment of selected from 60°C at 80% RH -40°C at 10% RH, and a combination of these conditions.

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A method for manufacturing a magnetic recording medium comprising:

purifying a thermoplastic norbornene resin using a cleaning liquid that is selected from 2-propanol and a mixed solvent of 2-propanol and water;

forming a plastic substrate by injection-molding said purified resin; and sequentially depositing a magnetic layer, a protective layer, and a liquid lubricant layer on said plastic substrate.

The method for manufacturing a magnetic recording medium according to claim 21, wherein said mixed solvent of 2-propanol and water is a mixture with mixing ratio 2-propanol: water is from 1:1 to 5:1.

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